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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/703,391	11/07/2003	Michael Albert Helmbrecht	IRIS-P0002	9202
23349	7590 10/01/2004		EXAM	INER
STATTLER JOHANSEN & ADELI			STERLING, AMY JO	
P O BOX 5186 PALO ALTO,	<del>-</del>		ART UNIT	PAPER NUMBER
1112011210,			3632	

DATE MAILED: 10/01/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)			
Office Action Summany	10/703,391	HELMBRECHT, MICHAEL ALBERT			
Office Action Summary	Examiner	Art Unit			
	Amy J. Sterling	3632			
The MAILING DATE of this communication Period for Reply	on appears on the cover sheet wi	th the correspondence address			
A SHORTENED STATUTORY PERIOD FOR F THE MAILING DATE OF THIS COMMUNICAT  - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicati  - If the period for reply specified above is less than thirty (30) days  - If NO period for reply is specified above, the maximum statutory  - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION.  CFR 1.136(a). In no event, however, may a reion.  s, a reply within the statutory minimum of thirt period will apply and will expire SIX (6) MON a statute, cause the application to become AB	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on	07 November 2003.				
2a) ☐ This action is <b>FINAL</b> . 2b) ☑	<u> </u>				
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
closed in accordance with the practice ur	nder <i>Ex parte Quayl</i> e, 1935 C.D	. 11, 453 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) 1 is/are pending in the application	on.				
4a) Of the above claim(s) is/are wi	thdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction	and/or election requirement.				
Application Papers					
9)☐ The specification is objected to by the Exa					
10)☐ The drawing(s) filed on is/are: a)☐					
Applicant may not request that any objection					
Replacement drawing sheet(s) including the c					
11) The oath or declaration is objected to by t	ne Examiner. Note the attached	Office Action or form P10-152.			
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of:  1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in A e priority documents have been Bureau (PCT Rule 17.2(a)).	pplication No received in this National Stage			
Attachment(s)	4\ □ Intenious S	Summary (PTO-413)			
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-94)</li> </ol>	18) Paper No(s	s)/Mail Date			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date		nformal Patent Application (PTO-152)			

Application/Control Number: 10/703,391

Art Unit: 3632

## **DETAILED ACTION**

This is the first Office Action for application number 10/703,391, Deformable Mirror, filed on 11/7/03. Claim 1 is pending.

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by United States Patent No. 6759787 to Miller et al.

The patent to Miller et al. discloses a substrate (12) and a platform (14) elevated above the substrate and supported by curved flexures (16) the flexures a substantial result form variations in intrinsic residual stress within the flexures (See Col. 3, lines 24-33 for a description on how the stress gradient in the flexure causes curvature of the flexure).

## **Conclusion**

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

The following documents show various stress gradient curved members

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2004/0180465 to Musolf et al.

6625004 to Musolf et al.

Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 703-308-3271. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). If attempts to reach the examiner are unsuccessful, the examiner's supervisor, Leslie Braun can be reached at 703-308-2156. The fax machine number for the Technology center is 703-872-9306 (formal amendments) or 703-308-3519 (informal amendments/communications).

Any inquiry of a general nature or relating to the status of this application should be directed to the Technology Center receptionist at 703-308-2168.

AJS

Amy J. Sterling

9/22/04

ANITA KING